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AQ 1016-2005

Safety Inspecting-testing Specification of In-service Hoist System for Coal Mine

煤矿在用提升绞车系统安全检测检验规范

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Contents

1 Scope....1
2 Normative References....1
3 Basic Requirements of Inspection....2
4 Inspection Items and Requirements....2
5 Judgment of Inspection Results....5
6 Calculation Formula for Technical Parameters....6
7 Inspection Instruments and Measuring Tools....6
8 Inspection Period....6
Appendix A (Informative) Computing Formulas for Technical Parameters....7

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1 Scope

This standard specifies safety testing/inspecting items and their technical requirements for the in-service hoist (winch) system for coal mine.

This Standard is applicable to on-site testing and inspecting for in-service hoist system for coal mine (including in-service mine hoist (hoisting winch) with the barrel diameter of 1.2m or below that is strictly prohibited to load people).

2 Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties whose enter into agreement according to this Standard are encouraged to research whether the latest editions hereof are applied or not. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of these documents is applicable.

GB/T 3768-1996 Acoustics - Determination of Sound Power Levels of Noise Sources Using Sound Pressure - Survey Method Using an Enveloping Measurement Surface over a Reflecting Plane (MOD ISO 3746: 1994)

JB 3277-91 Hydraulic Station for Mine Hoists and Mine Hoisting Winches

JB 8516-1997 Mine Hoists and Mine Hoisting Winch - Safety Requirements

JB 8519-1997 Mine Hoist and Mine Hoisting Winch - Disc Brake

JB 8918-1999 Hydraulic Anti-explosive Mine Hoists and Mine Winders - Safety Requirements

"Safety Regulations in Coal Mine" (Edition 2004)

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3 Basic Requirements of Inspection

3.1 The inspected in-service hoist system for mine shall be able to run normally as required by "Safety Regulations in Coal Mine".

3.2 The hoist system shall be the product in accordance with the requirements of safety performance specified in JB 8916.

3.3 Hydraulic anti-explosive hoist system shall be the product conforming to the requirements on safety performance specified in JB 8918.

4 Inspection Items and Requirements

4.1 Machine room

4.1.1 The machine room shall be equipped with complete lighting facilities, providing enough light and proper illumination, as well as emergency lighting facilities.

4.1.2 The nose level at the workplace, that shall be measured according to GB/T 3768, shall not exceed 85 dB (A); where the nose level is higher than 85 dB (A), the staffs need wear personal protective devices; where higher than 90 dB (A), the measures to reduce noise in workplace shall be taken.

4.1.3 The temperature and humidity in machine room shall meet the industrial hygiene standards and the environment requirements for the equipment.

4.1.4 The exposed rotating components, such as coupling and exposed gear, shall be arranged with fixed protective device.

4.1.5 In a vertical shaft, the maximum loading and maximum loading difference of the hoisting device shall be announced at the shaft top.

4.2 Hoisting device

4.2.1 The main axle and drum of the hoist, after being inspected, shall have no defect that reduces mechanical performance and service performance.

4.2.2 The number of steel wire rope layers winded on a hoist system for mine.

4.2.2.1 In shaft, where the winder is used for hoisting person or both material and person, the number of rope layers shall be one; for hoisting only material, it shall be 2 (layers).

4.2.2.2 In inclined shaft tunnel, where the winder is used for hoisting person or both material and person, the number of rope layers shall be 2; for hoisting only material, it shall be 3 (layers).

4.2.2.3 Where the winder is used for hoisting person or material during the shaft making, the number of rope layers shall be 2.

4.2.2.4 If a transition rope wedge is arranged on the drum and the strength of the drum meets the requirement, the number of rope layers shall be increased by one layer.

4.2.3 Where the drum is winded with two or more layers of steel wire ropes, it shall meet the following requirements:

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